SEQUENCE LISTING

<110> The University of British Columbia

<120> Regulation of Embryonic Transcription in Plants

<130> 4810-58741

<140> PCT/CA 00/00907
<141> 2000-08-04

<150> US 60/147,133
<151> 1999-08-04

<160> 23

<170> PatentIn version 3.0

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<223> CE3 element at 381-369 bp

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<223> LaproFW

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<223> transcriptional regulatory region

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<222> (1)..(1588)
<223> transcriptional regulatory region

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acctcgttga gtactcatgc taccttccac caacgcattg tagatcaagt atctccaagg 180

tcatggatat cttttatcaa gtaagaaaag ctgatccttc tcggaacggc acgtgcgatg 240

actcgtcgtg gcttgacttc ttgaggaaga ttcaagaacg ttcaggtcta ggcgatgaaa 300

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tccataaaaa tacgtatgct cttgtggtga gcacagagaa catcacttat aacatttacg 660

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<213> Artificial sequence

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gtagaacgta aatttactaa gaatgtgttt ttccaatgtg attgctcttt ggcctcttag 180

gtttgaatcc tactcgagaa gactaatttt aatttactgg caaaaatagg aatcaattta 240

taagtgttta aacaaatcga tggtataact gattagtgat cactcttagg ttttgatcca 300

actcnagtat tgagtattga acgctttttt taaataaaat cttgattttt aaattggttt 360

tttgagtaaa aaagttctta atatttttct tttgttttaa tgggtttgtt ttgcatttta 420

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gcatgagtaa tacacatgtc tatataaatg catgtaaaac gtaacggacc acaaaagtgg 1020

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<220>
<221> promoter
<222> (1)..(972)
<223> FAE1 promoter

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taatgcgtat aaaacgtagt acttaaatga ctaggagtgg ttcttgagac cgatgagaga 180

tgggagcaga actaaagatg atgacataat taagaacgaa tttgaaaggc tcttaggttt 240

gaatcctatt cgagaatgtt tttgtcaaag atagtggcga ttttgaacca aagaaaacat 300

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aatacacttg cgaataaaca cattccgag aaatactcat gatcccataa ttagtcagag 540

ggtatgccaa tcagatctaa gaacacacat tcccttaaat tttaatgcac atgtaatcat 600

agttcagcac aattcaaaaa taatgtagta ttaaagacag aaatttgtag actttttttt 660

ggcgttaaag gaagactaag tttatacgta cattttattt taagtggaaa accgaaattt 720

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cacatgtcta aatgcatgct ttgcaaaacg taacggacca caaaagagga tccatgcaaa 900

tacatctcat agcttcctcc attatttttcc gacacaaaca gagcaatgac gtccgttaac 960

gttaagctcc tt 972

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<211> 1790
<212> DNA
<213> Brassica napus;

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<221> promoter
<222> (1)..(1790)
<223> FAE1 promoter

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ccaaaccggt ttacctcgtt gagtactcat gctaccttcc accaacgcat tgtagatcaa 180

gtatctccaa ggtcatggat atcttttatc aagtaagaaa agctgatcct tctcggaacg 240

gcacgtgcga tgactcgtcg tggcttgact tcttgaggaa gattcaagaa cgttcaggtc 300

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cggcggcgcg tgaagagacg gagcaagtta tcattggtgc gctagaaaat ctattcaaga 420

acaccaacgt taaccctaaa gatataggta tacttgtggt gaactcaagc atgtttaatc 480

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gctttaacct tggtggcatg ggttgtagtg cggcgttat agccattgat ctagcaaagg 600

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<223> FAE1 promoter

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<211> 1141
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<221> promoter
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<223> consensus sequence of A.t., L.a., and B.n. FAE1 promoters

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nswrhrywrw rambdtvdhh yvtamnnawt tmcmmdkddk rtrwwwkknn natgwdddtk     180

yhmwnnngcb tvtwnvrykt drdwsbkrmn ygmbwwknws ydvtyywwvw ddmckrkvrr     240

wrrtrgrnrn ynvawbtahr rrynngwtba nayrrwtmnn nnnnakamck rakywgwnra     300

rnnstcttwk skttkvrtsc wanncragda nkdhkwwkws aamgvywnnn nnnnwtykka     360

rhbarwdwvw hsawkkwnan aahysrkkwt bykrktmvnn nngttmwkrm wawywkmdmd     420

vbgtynnnnn ggrtyygwtk nkkmwtyykw kannckwraw dhktcthnnt twwkmktywn     480

ncywksmtng kshrbaaavy twynwwwrry ahannnnwdy wwkactwyky bvcskwwnny     540

aawytksswn ytsryyrwkt nnswrwrsdt rsmgrannya rabhyqykwn trwwbwshtw     600

bhbragaahy wmbmmybakc hcmkawykak kyagaggsnn nnnnnnnnnn nnnnatcard     660

dyyaasrwya manakwyyyk baannayyth annwwgcwnn atdtrrtmwk nnnnnnagtw     720

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tknnnattyn rgtawrtnnn nnnmtmktky ybhaawnnnn nngkmctaht wwvckatktt     960

kgcwmnctt crkyknnctw ytwmtttrtt wyaatrwktn natgsmtrcn atgwknnnyw    1020

tgwktrwtay rmatrwmkaw wkvmatgswn tnsyarwayk traykgwyyn acawrwrwgk    1080

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n                                                                   1141
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<212> DNA
<213> Artificial sequence

<220>
<221> promoter

<222> (1)..(1055)
<223> consensus sequence of A.t. and L.a. FAE1 promoters

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gtrwwtgywm tnnngcstmt warryktrrw wcytamwyga swagnastrr ttytwrwkwm 180

ckrksarara trgrarymra wytawarrtg wtkamayaaw tmnnnnnnak aackrattwg 240

wraksnctct taggttttkra tccwaytcga gwatkkwktw ktsaamgmtw nnnnnnnttt 300

tkaamyaaar wmwwsatttw waaawtsrkt wtyygrktam nnnngttcwt rmwawtwkmw 360

mktkgtttwn nnggrtytgw ttkkmatttt akanncttaa wkwktctmnn ttaakattyw 420

atcywksmtn gtsyryaaar ytwyawwtrr yayannnntk ttwkactwtt ykrccttann 480

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yragaawtam ymmtsatcyc ataattagtc agaggstakg nnnnnnnnnc caatcarwkc 600

taasaacama nattcyctya annatytwan natgcwnatk taatmwtnnn nnnagtwtnn 660

nnnnakmasa atwyaaaamt aatkyartan ttamagayar aaayttrtan ngactttttt 720

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gcwysctcnn nnnnnntccg acacaaanow garca 1055